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(54) Title: **DIAMINE AND IMINODIACETIC ACID HYDROXAMIC ACID DERIVATIVES**

(57) Abstract: The present invention relates to a novel class of hydroxamic acid derivatives having a diamine or iminodiacetic acid backbone. The hydroxamic acid compounds can also inhibit histone deacetylase and are suitable for use in selectively including terminal differentiation, arresting cell growth and/or apoptosis of neo-plastic cells, thereby inhibiting proliferation of such cells. Thus, the compounds of the present are useful in treating a patient having a tumor characterized by proliferation of neoplastic cells. The compound of the invention are also useful in the prevention and treat-ment of TRX-mediated diseases, such as autoimmune, allergic and inflammatory diseases, and in the prevention and/or treatment of diseases of the central nervous system (CNS), such as neurodegenerative diseases. The present invention further provides pharma-ceutical compositions comprising the hydroxamic acid derivatives, and safe, dosing regimens of these pharmaceutical compositions, which are easy to follow, and which result in a therapeutically effective amount of the hydroxamic acid derivatives *in vivo*.